From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

FIB

(PCT Rule 71.1)

Date of Mailing (day/month/year)

19 APR 2002 Applicant's or agent's file reference IMPORTANT NOTIFICATION International filing date (day/month/year) Priority date (day/month/year) International application No. 06 December 1999 (06.12.1999) 05 July 1996 (05.07.1996) PCT/US99/28913 Applicant **BRAD A. ARMSTRONG**

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER -

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized office

Jeffery A. Brier

Telephone No

Form PCT/IPEA/416 (July 1992)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)		
PCT/US99/28913 06 December 1999 (06.12.1999) 05 July 1996 (05.07.1996)				
International Patent Classification (IPC) or national classification and IPC				
IPC(7): G09G 5/08; G06K 11/18; G06F 3/02 and US C1.: 345/161, 168				
Applicant				
BRAD A. ARMSTRONG				
Examining Authority and i	is transmitted to the applicant a	-		
2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of 22 sheets.				
3. This report contains indications relating to the following items:				
I Basis of the report				
II Priority				
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of	IV Lack of unity of invention			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited				
VII Certain defects in the international application				
VIII Certain observations on the international application				
Certain observations on the international appreciation				
Date of submission of the demand	Date	of completion of his report		
26 June 2001 (26.06.2001)	26 Ma	arch 2002 (26,03.2002)		
Name and mailing address of the IPEA/U		Authorized officer		
Commissioner of Patents and Trademar		ry A. Brier		
Washington, D.C. 20231 Facsimile No. (703)305-3230 Telephone No. (703) 305-3800				

	IN	TERNATIONAL PRELIMINARY EXAMINATION REPORT	PCT/US99/28913
I.	Basi	s of the report	
1.	With	regard to the elements of the international application:*	
		the international application as originally filed.	
	\boxtimes	the description:	
		pages 1-54 as originally filed pages NONE , filed with the demand	· ·
		pages NONE , filed with the demand	
	X	the claims:	
	لاك	pages NONE , as originally filed	
		pages NONE , as amended (together with any statement pages 55-76 , filed with the demand	nt) under Article 19
		pages NONE , filed with the letter of	
	\boxtimes	the drawings:	
		pages 1-40 , as originally filed	
		pages NONE , filed with the demand pages NONE , filed with the letter of	
	\Box		
	لــا	the sequence listing part of the description: pages NONE , as originally filed	·
		pages NONE , filed with the demand	·
		pages NONE , filed with the letter of	ailable or furnished to this Authority in the
2.	langi	n regard to the language, all the elements marked above were av- uage in which the international application was filed, unless other se elements were available or furnished to this Authority in the fo	rwise indicated under this item.
		the language of a translation furnished for the purposes of intern	national search (under Rule23.1(b)).
		the language of publication of the international application (und	
		the language of the translation furnished for the purposes of inte 55.2 and/or 55.3).	
3.	With inter	h regard to any nucleotide and/or amino acid sequence disclose national preliminary examination was carried out on the basis of	ed in the international application, the the sequence listing:
ļ		contained in the international application in printed form.	
		filed together with the international application in computer rea	dable form.
		furnished subsequently to this Authority in written form.	
		furnished subsequently to this Authority in computer readable f	orm.
		The statement that the subsequently furnished written sequence international application as filed has been furnished.	
		The statement that the information recorded in computer readal has been furnished.	ole form is identical to the written sequence listing
4.		The amendments have resulted in the cancellation of:	
		the description, pages NONE	
		the claims, Nos. NONE	
		the drawings, sheets/fig NONE	

This report has been established as if (some of) the amendments had not been made, since they have been considered to go

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). **

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

. Reasoned statement under Rule 66.2(a) citations and explanations supporting su	ich statement		
STATEMENT			
Novelty (N)	Claims Plea	se See Continuation Sheet	YES
	Claims Plea	se See Continuation Sheet	NO
Inventive Step (IS)	Claims Plea	se See Continuation Sheet	YES
mventive step (10)		se See Continuation Sheet	NO
T. A Applicability (IA)	Claims Ple	se See Continuation Sheet	YES
Industrial Applicability (IA)		ase See Continuation Sheet	NO
Claims 48, 56, and 101-107 lack novelty unde 5,898,425. Figures 2 and 3 illustrate a pivotation a computer where pointing devices control	the movement of a	pointer on a display device. In the	paper from applicant 5. Patent 6,222,525".
5,898,425. Figures 2 and 3 illustrate a pivotal for a computer where pointing devices control received with the Demand applicant stated the However, claims 101-104 do not have all the I Claims 72-82 lack novelty under PCT Article 3 reference describes a 6 DOF image controller 29-31 describes variable sensitive sensors arpressing from the user. Claims 12-25 and 29-38 lack an inventive ste 5,589,828. Armstrong does not explicitly deaxes input structures. This would have been being used in the joystick envirnoment which joystick handle. Claims 39-47, 97-100, and 108-119 meet the or fairly suggest a sheet supporting the sensor	the movement of a at "claims 97-119 ar imitations of the pa 33(2) as being antic." Col. 8 lines 26-3 at figure 2 shows so p under PCT Articlescribe having a fing obvious because A is known to have for the joystick have for the joystick have a criteria set out in Fors for the joystick have a control of the joy	pointer on a display device. In the e identical to those issued in my U.S. lented claims and are fully met by the patent of the	paper from applicant 5. Patent 6,222,525". is reference. 5. 5,565,891. This ack and col. 11 lines ich receive variable rong, U.S. Patent No. addition to the two-e input structures as in addition to the
5,898,425. Figures 2 and 3 illustrate a pivotal for a computer where pointing devices control received with the Demand applicant stated the However, claims 101-104 do not have all the I Claims 72-82 lack novelty under PCT Article 3 reference describes a 6 DOF image controller 29-31 describes variable sensitive sensors arpressing from the user. Claims 12-25 and 29-38 lack an inventive ste 5,589,828. Armstrong does not explicitly deaxes input structures. This would have been being used in the joystick envirnoment which joystick handle. Claims 39-47, 97-100, and 108-119 meet the or fairly suggest a sheet supporting the sensor NEW CITATIONS	the movement of a at "claims 97-119 ar imitations of the pa 33(2) as being antic." Col. 8 lines 26-3 ad figure 2 shows set of the particle of	pointer on a display device. In the e identical to those issued in my U.S. lented claims and are fully met by this pated by Armstrong, U.S. Patent No. 0 describes break over tactile feedbackeral buttons 102, 114, and 106 which are depressible independent button in mustrong suggests by describing the inger depressible independent button (CT Article 33(2)-(4), because the principal and the sensors for the finger obt. 5 lines 11-57.	paper from applicant 5. Patent 6,222,525". is reference. b. 5,565,891. This ack and col. 11 lines ich receive variable rong, U.S. Patent No. addition to the two-e input structures as in addition to the ior art does not teach depressible buttons.
5,898,425. Figures 2 and 3 illustrate a pivotation of a computer where pointing devices control received with the Demand applicant stated the However, claims 101-104 do not have all the I Claims 72-82 lack novelty under PCT Article 3 reference describes a 6 DOF image controller 29-31 describes variable sensitive sensors arpressing from the user. Claims 12-25 and 29-38 lack an inventive ste 5,589,828. Armstrong does not explicitly deaxes input structures. This would have been being used in the joystick envirnoment which joystick handle. Claims 39-47, 97-100, and 108-119 meet the or fairly suggest a sheet supporting the sensor.	the movement of a at "claims 97-119 at "claims 97-119 at imitations of the pa 33(2) as being antic." Col. 8 lines 26-3 at figure 2 shows set of the particle scribe having a fing obvious because A is known to have for the joystick in the proof of the joystick in the joystick in the proof of the pro	pointer on a display device. In the e identical to those issued in my U.S. lented claims and are fully met by this pated by Armstrong, U.S. Patent No. 0 describes break over tactile feedbackeral buttons 102, 114, and 106 which are depressible independent button in matrong suggests by describing the inger depressible independent button. CT Article 33(2)-(4), because the principle and the sensors for the finger old. 5 lines 11-57.	paper from applicant 5. Patent 6,222,525". is reference. b. 5,565,891. This ack and col. 11 lines ich receive variable rong, U.S. Patent No. addition to the two-e input structures as in addition to the depressible buttons.

Form PCT/IPEA/409 (Box V) (July 1998)

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PCT/US99/28913

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

The description is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 5 because it fails to adequately enable practice of the claimed invention because: The first button structured to rotate upon depression by a finger causing a proportional sensor to be activated and a second button structured to rotate upon depression by a finger causing a proportional sensor to be activated were not described and enabled in the specification. In figure 28 and at page 43 lines 4-7 and 9-12 and at page 37 lines 18-27 applicant described a button structure 376 which rotates about an integrated cylindrical fulcrum 380 to activate sensor 384. The sensor was not described as being a proportional sensor. Thus, the specificatin did not enable a rotating button producing a proportional electrical output.

Claims 1-11, 95 and 96 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because practice of the claimed invention is not enabled as required under PCT Rule 5.1(a) for the reasons set forth in the immediately preceding paragraph.

Form PCT/IPEA/409 (Box VIII) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION RI	EPORT PCT/US99/28913
Supplemental Box (To be used when the space in any of the preceding boxes is not sufficiently boxes.)	fficient)
(10 de usea wilei ille operati	
V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to clare the opinion as to Novelty was negative (No) with respect to clare opinion as to Inventive Step was positive (Yes)with respect The opinion as to Inventive Step was negative(NO) with respect The opinion as to Industrial Applicability was positive (YES) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as to Industrial Applicability was negative (NO) with the opinion as	et to claims 1-11, 39-47, 95, 96, 97-100, and 106-175.

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)